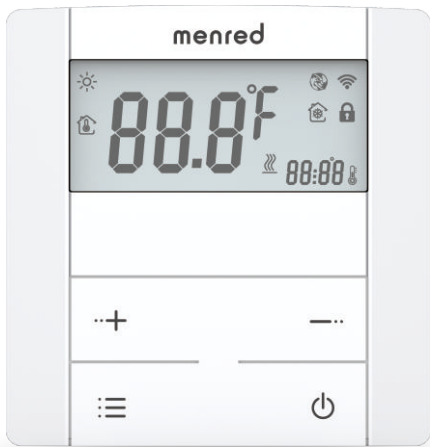# *LS8...* Heating Thermostat with LCD Screen
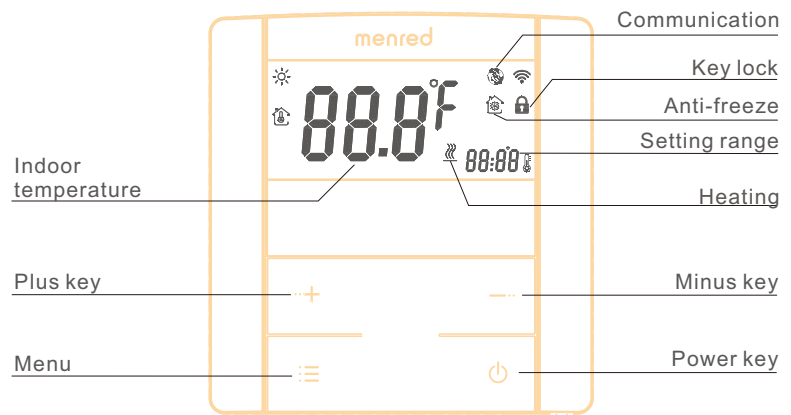
Introduction

LS8...digital heating thermostat can be applied to electric floor heating control and on/off valve actuator in hydraulic underfloor heating.
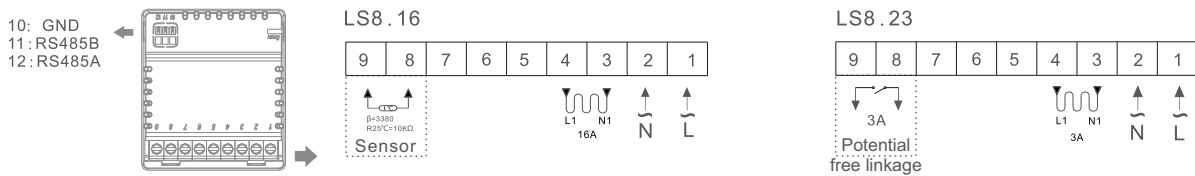
Technical data

Output voltage	AC220V
Ambient humidity	<95%
Power consumption	≤1.5W
Measured temperature range	-9.5~99.5℃
Control temperature	5~90℃
Ambient temperature	-10~55℃
Protection class	IP20
RS485 communication	Modbus protocol

Function and display explanation

LS8...

- Communication
- Key lock
- Anti-freeze
- Setting range
- Heating
- Indoor temperature
- Plus key
- Minus key
- Menu
- Power key

Wiring diagram

10: GND
11: RS485B
12: RS485A

LS8.16

β=3380
R25℃=10KΩ
Sensor

L1 N1
16A

N   L

LS8.23

3A
Potential free linkage

L1 N1
3A

N   L

Selection table

Model Number	Load	Control Method
LS8.16	16A	Built-in& floor sensor; control and limit temperature
LS8.16 RS485	16A	Built-in& floor sensor; control and limit temperature; RS485
LS8.23	3A	Built-in sensor; potential-free output
LS8.23 RS485	3A	Built-in sensor; potential-free output; Rs485